



## Advanced Design and Control of Switched Reluctance Machines

**The Theme:** Switched Reluctance Machines (SRM) have attracted attention among researchers in academia and industry due to their fault resilience, ruggedness, low cost, and adequacy for self sensing control algorithms. Whether for vehicular, renewable, or domestic applications these attributes makes SRM drives an attractive candidate among adjustable speed drives. Furthermore, inherent interdependence between control electronics and magnetic design in this family of electromechanical converters opens new opportunities for improvement of performance and understanding the art of integration between these two disciplines. Past few decades have witnessed substantial progress in development of new technologies for SRM drives. This special section aims to address the state-of-the-art in technologies that are related to simplification, optimal utilization, and new applications of SRM drives. Prospective authors are invited to submit manuscripts for review on the following topics:

- Analysis of magnetic field and new magnetic configurations for SRM.
- Fault tolerant control of SRM drives.
- Application of SRM drives in vehicular and renewable energy systems.
- Self sensing control algorithms for SRM drives.
- Mitigation of acoustic noise and vibration in SRM drives.
- High power SRM drives.
- Thermal analysis of SRM drives.
- Power quality assessment and new power electronic solutions for SRM drives.
- Control of SR generators.
- Advanced modeling and simulation of SRM drives.

### Manuscript Preparation and Submission:

Follow the guidelines in “Information for authors” in the IEEE Transaction on Industrial Electronics <http://tie.ieee-ies.org/tie>. Please submit your manuscript in electronic form through Manuscript Central Website: <http://mc.manuscriptcentral.com/tie-ieee>. On the submitting page #1 in popup menu of manuscript type, select: **SS on switched reluctance machines**

### Important Dates:

**Manuscript submission deadline:**

**Acceptance notice:**

**Estimated Publication date:**

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**September 2009**

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